### PATENT COOPERATION TREATY

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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file ( IH-151			See Form PCT/IPEA/416
International application N	o. International filing date	(day/month/year)	Priority date (day/month/year)
PCT/JP2004/009598	30.06.2004		25.07.2003
International Patent Class A01N47/36	ification (IPC) or national classification and	PC	
	) KAISHA LTD. et al.		
Authority under	international preliminary examination i Article 35 and transmitted to the applica	int according to Article Co	s International Preliminary Examining 3.
	onsists of a total of 5 sheets, including		•
3. This report is als	o accompanied by ANNEXES, compris	sing:	6.9
a. 🗆 sent to ti	e applicant and to the International Bu	reau) a total of sheets, a	as follows:
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□ shee	ots which supersede earlier sheets, but and the disclosure in the international a plamental Box.	oplication as tiled, as ind	
b. ☐ (sent to			er of electronic carrier(s)) , containing a n only, as indicated in the Supplemental n instructions).
4. This report con	tains indications relating to the following	g items:	
☐ Box No. I	Basis of the opinion	•	
☐ Box No. II	Priority		
☐ Box No. III	Non-establishment of opinion with re	egard to novelty, inventiv	e step and industrial applicability
☐ Box No. IV	Lack of unity of invention		
⊠ Box No. V	Reasoned statement under Article 3 applicability; citations and explanations	5(2) with regard to nove ons supporting such stat	lty, inventive step or industrial ement
☐ Box No. VI			
☐ Box No. V	i Certain defects in the international a		
⊠ Box No. V	II Certain observations on the interna	tional application	
Date of submission of	the demand	Date of completion of	this report
10.12.2004		04.07.2005	
Name and mailing ad	dress of the international	Authorized Officer	Stockes Palancam.
preliminary examining Europe D-8029	authority: an Patent Office 8 Munich 9 89 2399 - 0 Tx: 523656 epmu d 19 89 2399 - 4465	Telephone No. +49 8	39 2399-
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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/009598

With filed,	regard to the language, this report is based on the international application in the language in which it was unless otherwise indicated under this item.  This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:  International search (under Rules 12.3 and 23.1(b))  publication of the international application (under Rule 12.4)  international preliminary examination (under Rules 55.2 and/or 55.3)  regard to the elements* of the international application, this report is based on (replacement sheets which a been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this lart as "originally filed" and are not annexed to this report):
filed,	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:  ☐ international search (under Rules 12.3 and 23.1(b)) ☐ publication of the international application (under Rule 12.4) ☐ international preliminary examination (under Rules 55.2 and/or 55.3)  regard to the elements* of the international application, this report is based on (replacement sheets which the property of the international application under Article 14 are referred to in this
With	which is the language of a translation furnished for the purposes of.  International search (under Rules 12.3 and 23.1(b))  International preliminary examination (under Rules 12.4)  International preliminary examination (under Rules 55.2 and/or 55.3)  regard to the elements* of the international application, this report is based on (replacement sheets which the property of the international application and invitation under Article 14 are referred to in this
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Des	cription, Pages
1-71	as originally filed
Clai	ms, Numbers
1-22	as originally filed
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
	The amendments have resulted in the cancellation of:  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):
	This report has been established as if (some of) the amendments annexed to this report and listed below d not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the pplemental Box (Rule 70.2(c)).
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### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/009598

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 12

No: Claims 1-11,13-22

Inventive step (IS) Yes: Claims

No: Claims 1-22 (insofar as novel)

Industrial applicability (IA) Yes: Claims 1-22

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

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1). Herbicidal compositions comprising a herbicidal sulfonylurea and an alkoxylated glyceride, in particular a polyoxyethylene (optionally hydrogenated) castor oil, have been disclosed in all documents cited X in the International Search Report as can be seen from the specific citations in the ISR, especially the examples.

The subject-matter of present claims 1 - 11 and 13 - 22 hence is not novel with respect to the citations of the ISR (Art. 33 (2) PCT).

The fact that other formulation ingredients, such as dicarboxylic acid esters (GB 2 309 904 (= D1)) or particular solvent systems and/or further surfactants (WO 98/16102 A1 (= D2), WO 00/25586 A1 (= D3)), EP 598 515 A1 (= D4) and EP 313 317 A2 (= D5)) are present in the formulations of the prior art is not relevant since the claimed compositions also envisage the presence of such further ingredients (see, for example, present claims 10 and 11 and the description, page 19 - 23, disclosing various additives including ingredients of the formulations of the prior art.)

It is further pointed out, that it is well-known in the art, that addition of surfactants generally increases the effect of herbicides. The subject-matter of present claims 18 and 19 hence is anticipated by D1 - D5 as well.

- 2). a). The subject-matter of claim 12 is novel, since a combination of sulfonylurea, alkoxylated glyceride and a coadjuvant selected from a chelating agent and a nitrogen-containing fertilizer has not been disclosed in the prior art. It is, however, not clear which particular technical problem has been solved in a non-obvious way since further addition of such adjuvants is common practice in the art. Claim 12 hence is not considered to be based on an inventive step (Art. 33 (3) PCT).
- b). Even if the claims were formulated in such a way, that they are clearly and unequivocally distinct from the contents of D1, their subject-matter would not be considered inventive since no surprising effects as compared to the effects of compositions based on castor oil derivatives have been demonstrated. It is evident from D1, that it is known in the art that ethoxylated castor oil is the preferred alkoxylated glyceride for use in sulfonylurea formulations (D1: page 4, line 29/30). The formulations of D2 D5 also show, that ethoxylated castor oil is a preferred nonionic surfactant for sulfonylurea formulations.

It would be obvious to replace the castor oil derivatives of the formulations of D1 - D6 by other, closely analogous alkoxylated glycerides, such as those disclosed in D1, page

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4 from line 5 onwards.

3). The number of 8 independent method claims (for controlling undesired plants) (claims 13 - 17 and 20 - 22) is too high in view of the requirements of conciseness (Art. 6 PCT; see also Guidelines WIPO 5.13 and 5.42).

Method claims 14 - 17 and 20 - 22 hence should be reformulated as claims dependent on claim 13.

The present formulation of claim 22 suggests that after application of a diluted sulfonylurea-glyceride formulation, an additional amount of alkoxylated glyceride is applied to the undesired plants. The intended scope of protection of this claim hence is ambiguous (Art. 6 PCT).